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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,852	07/15/2003	Mark Chee	67234-015	2545
41552 7	7590 03/28/2006	EXAMINER		
MCDERMOTT, WILL & EMERY			TUNG, JOYCE	
4370 LA JOLLA VILLAGE DRIVE, SUITE 700 SAN DIEGO, CA 92122		1E /00	ART UNIT	PAPER NUMBER
			1637	<u>-</u>
			DATE MAILED: 03/28/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		· · · · · · · · · · · · · · · · · · ·				
•	Application No.	Applicant(s)				
Office Antique Comment	10/620,852	CHEE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Joyce Tung	1637				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	s action is non-final.					
3) Since this application is in condition for allowa		esocution as to the morits is				
closed in accordance with the practice under	•					
closed in accordance with the practice under	Ex parte Quayle, 1933 C.D. 11, 4.	55 O.G. 215.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-103</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-103 are subject to restriction and/o	r election requirement.					
Application Papers	·					
··· _						
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·	• • •				
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	n priority under 35 U.S.C. § 119(a	)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage				
application from the International Burea	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da					
<ul> <li>B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>	6) Other:	atent Application (PTO-152)				
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## DETAILED ACTION

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-34, drawn to a method of detecting a target sequence comprising using a first probe complementary to a target sequence and a second probe complementary to a target sequence, classified in class 435, subclass 6.
  - II. Claims 35-52, drawn to a method of detecting the relative amounts of two or more target sequences comprising hybridizing a first and second pair of ligation probes with first and second target sequences in an initial population, classified in class 435, subclass 6/91.52.
  - III. Claims 53-73, drawn to a method of amplifying a target sequence to produce a signal within a dynamic range of a detection assay comprising using a target-specific probe with a set of differential primers in which a second primer has a lower Tm compared to an upstream primer and a first downstream primer classified in class 435, subclass 91.2.
  - IV. Claims 74-87, drawn to a method of amplifying a target sequence to produce a signal within a dynamic range of a detection assay comprising using a set of differentially labeled primers, classified in class 435, subclass 91.2.
  - V. Claims 88-99, drawn to a method of amplifying a target sequence to produce a signal within a dynamic range of a detection assay comprising using at least two

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differently labeled nucleotides corresponding to different relative label concentrations, classified in class 435, subclass 91.2.

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- VI. Claims 100-103, drawn to a plurality of target sequence detection components comprising a plurality of probes, classified in class 536, subclass 24.3.
- 2. The inventions are distinct, each from the other because of the following reasons:
  - a. Inventions VI and I-V are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case, the product group, Group VI is drawn to a plurality of target sequence detection components comprising a plurality of probes in which these probes can be used in nucleic acid purification.
  - b. Inventions I-V are distinct, if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions are involved in different method steps and different effects, for example, Group I, claims 1-34, is for detecting a target sequence, Group II, claims 35-52, is for detecting the relative amount of two or more target sequences, Group III, claims 53-73, is for amplifying a target sequence to produce a signal within a dynamic range of a detection assay using a set of differential primers, Group IV, claims 74-87, is for amplifying a target sequence to produce a signal within a dynamic range of a detection assay comprising using a set of

differentially labeled primers, and Group V, claims 88-99, is for amplifying a target sequence to produce a signal within a dynamic range of a detection assay using at least two differently labeled nucleotides corresponding to different relative label concentrations.

- 3. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the

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application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joyce Tung whose telephone number is (571) 272-0790. The examiner can normally be reached on Monday - Friday, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571 272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joyce Tung March 18, 2006

KENNETH R. HORLICK, PH.D PRIMARY EXAMINER

Justa Mild

3/20/06